NVL LABS
INDUSTRIAL HYGIENE SERVICES
MANAGEMENT | TRAINING | LAB SERVICES
www.NVLLABS.com

August 12, 2014

Shimon Mizrahi
Rainier Commons LLC
918 S. Horton Street, Suite 1018
Seattle, WA 98134

Subject: **Catch Basin Sampling for IPWP1- Pre-Work**
Aqueous and Sediment Sampling
Rainier Commons, LLC

Site Address: 3100 Airport Way S, Seattle, WA

NVL Project#: 2012-494

Dear Mr. Mizrahi:

Rainier Commons, LLC retained NVL Laboratories to conduct the sampling at their Old Rainier Brewery site located at 3100 Airport Way South, Seattle, Washington and this letter has been prepared to convey the results.

NVL Labs conducted a pre-phase inspection and sampling on June 10th, 2014. The samples were collected at roughly 12:00 noon. No precipitation had occurred that day (http://www.nws.noaa.gov). NVL Labs proceeded to open and inspect the catch basins referred to as CB1 and CB3 as well as the manhole referred to as MH6 on the attached figure (attachment A). These stormwater collection points are located west of building 13.

At the time of the sampling, following removal of the storm drain grates, CB1 was found to be dry with no stormwater present, but with adequate sediment present. Both water and sediment adequate for sampling were present in CB3. MH6 was found to have neither water nor sediment adequate for sampling. Accordingly, a sediment sample was collected from CB1, both sediment and aqueous samples were collected from CB3, and no samples were collected from MH6. Photos of the exposed catch basins and manhole were taken to document their condition. (See Attachment B)

Sampling Location	Stormwater Present?	Aqueous Sample Collected?	Sediment Present?	Sediment Sample Collected?
Catch Basin 1	No	No	Yes	Yes
Catch Basin 3	Yes	Yes	Yes	Yes
Man Hole 6	No	No	No	No

Samples were collected as per the Condition 6: Catch Basin Sampling Plan for IPWP1.

The samples were transported to Fremont Analytical Laboratories under a chain-of-custody protocol before being analyzed for PCBs by EPA Method 8082.

Attached to this letter are a copy of the laboratory reports dated June 23rd, 2014, and the site plan that shows the sample locations. (Attachments C and A)

Aqueous Sample Results:

Laboratory analysis of the aqueous sample CB3 did not detect PCB Arochlors in the aqueous sample. Therefore, there were no exceedances of the aqueous screening limit of 0.1 micrograms per liter (mg/L) for total PCB Arochlors.

Sampling Location	Aqueous PCB Screening Limit (Total Alochors)	Sample Result	Result Above Screening Limit?
Catch Basin 3	.1 mg/L	Non Detect	NO

Sediment Sample Results:

Laboratory analysis of the sediment samples from CB1 and CB3 found detectable levels of PCB Arochlors in the samples collected from both CB1 and CB3. Total PCB concentrations of 9.88 parts per million (ppm) were detected in the sample collected from CB1. Total PCB concentrations of 4.33 ppm were detected in the sample collected from CB3. Both of these sediment PCB concentrations are above the sediment screening limit of 1.0 ppm for total PCB Arochlors.

Sampling Location	Sediment PCB Screening Limit (Total Alochors)	Sample Result	Result Above Screening Limit?
Catch Basin 1	1.0 ppm	9.88	YES
Catch Basin 3	1.0 ppm	4.33	YES

Prepared By

Marcus Gladden
Industrial Hygienist
NVL Laboratories

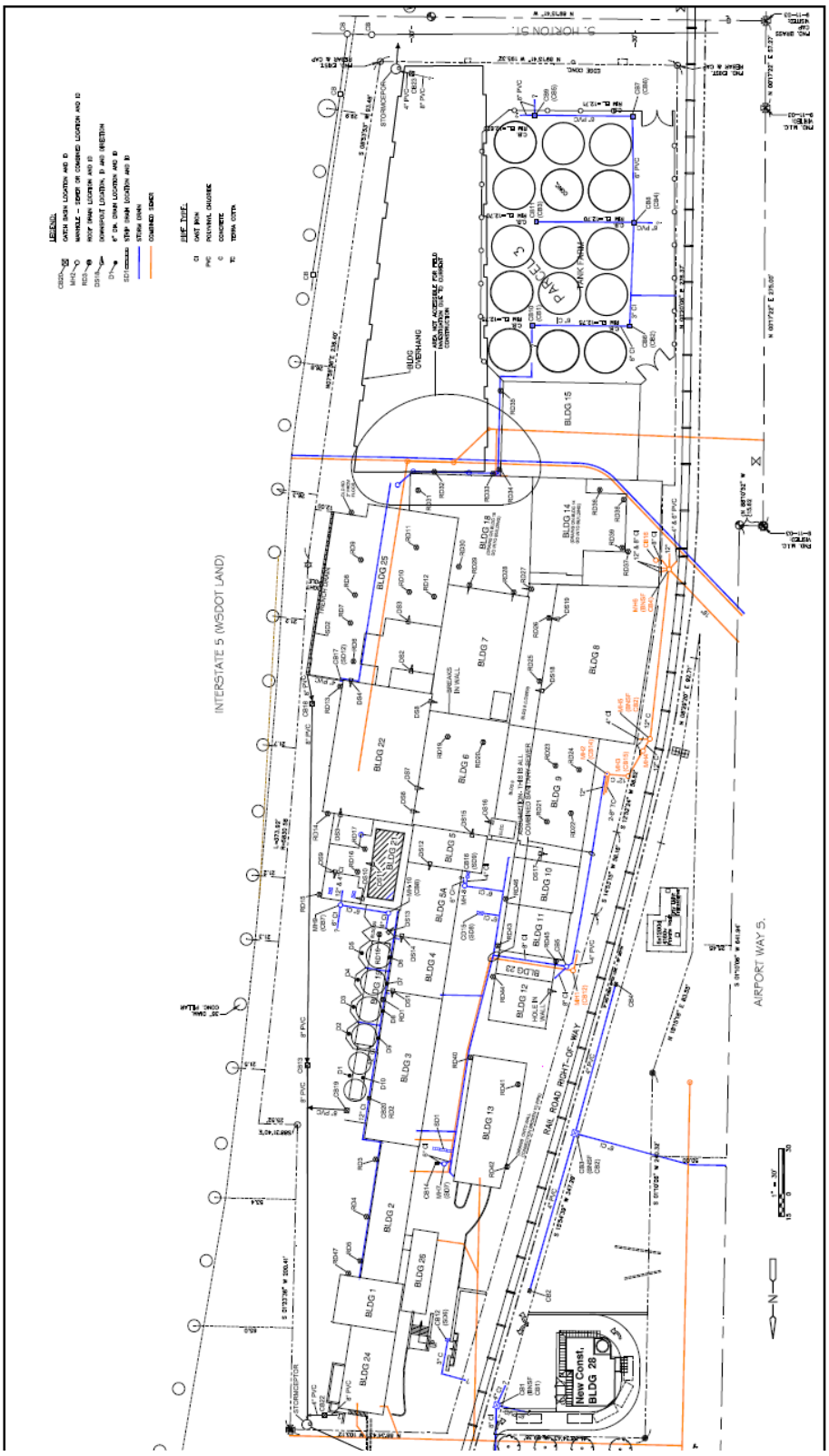
Reviewed By

Munaf Khan
Project Manager
Laboratory Director / President

Attachments:

A: Site Map with Sample Locations
B: Site Observation Photos
C: Laboratory Testing Report, Fremont Analytical Labs Batch No. 1406144, 1406145

Attachment A: Site Map



Attachment B: Site Observation Photos

Catch Basin 1
Standing water was observed in catch basin 1. A sediment sample was collected here as well.

Catch Basin 3
Standing water was observed in CB3. A sediment sample was collected here as well.

Man Hole 6
Moisture was observed in the manhole, but no standing water or significant accumulation of sediment was found in MH6 at the time of sampling.

Attachment C: Laboratory Testing Report, Fremont Analytical Labs Batch No. 1406144, 1406145

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

NVL Labs, Inc.
Munaf Khan
4708 Aurora Ave. N.
Seattle, WA 98103

RE: 2012-494
Lab ID: 1406144

June 23, 2014

Attention Munaf Khan:

Fremont Analytical, Inc. received 1 sample(s) on 6/13/2014 for the analyses presented in the following report.

Polychlorinated Biphenyls (PCB) by EPA 8082

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Michael Dee
Sr. Chemist / Principal

Date: *06/23/2014*

CLIENT: NVL Labs, Inc.
Project: 2012-494
Lab Order: 1406144

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1406144-001	61014-CB3	06/10/2014 12:00 AM	06/13/2014 5:00 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Case Narrative

WO#: **1406144**
Date: **6/23/2014**

CLIENT: NVL Labs, Inc.
Project: 2012-494

I. SAMPLE RECEIPT:
Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:
Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:
Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.
Prep Comments for METHOD (PREP-PCB-W), SAMPLE (1406144-001A) required Florisil Cleanup Procedure (Using Method No 3620C).
Prep Comments for METHOD (PREP-PCB-W), SAMPLE (1406144-001A) required Acid Cleanup Procedure (Using Method No 3665A).

Analytical Report

WO#: **1406144**
Date Reported: **6/23/2014**

Client: NVL Labs, Inc.
Collection Date: 6/10/2014
Project: 2012-494
Lab ID: 1406144-001
Matrix: Water
Client Sample ID: 61014-CB3

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Polychlorinated Biphenyls (PCB) by EPA 8082				Batch ID: 7854		Analyst: MD
Aroclor 1016	ND	0.200		µg/L	1	6/23/2014 5:55:00 PM
Aroclor 1221	ND	0.200		µg/L	1	6/23/2014 5:55:00 PM
Aroclor 1232	ND	0.200		µg/L	1	6/23/2014 5:55:00 PM
Aroclor 1242	ND	0.200		µg/L	1	6/23/2014 5:55:00 PM
Aroclor 1248	ND	0.200		µg/L	1	6/23/2014 5:55:00 PM
Aroclor 1254	ND	0.200		µg/L	1	6/23/2014 5:55:00 PM
Aroclor 1260	ND	0.200		µg/L	1	6/23/2014 5:55:00 PM
Aroclor 1262	ND	0.200		µg/L	1	6/23/2014 5:55:00 PM
Aroclor 1268	ND	0.200		µg/L	1	6/23/2014 5:55:00 PM
Total PCBs	ND	0.200		µg/L	1	6/23/2014 5:55:00 PM
Surr: Decachlorobiphenyl	96.7	45.1-140		%REC	1	6/23/2014 5:55:00 PM
Surr: Tetrachloro-m-xylene	72.1	42.1-101		%REC	1	6/23/2014 5:55:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Date: *6/23/2014*

Work Order: 1406144
CLIENT: NVL Labs, Inc.
Project: 2012-494

QC SUMMARY REPORT

Polychlorinated Biphenyls (PCB) by EPA 8082

Sample ID: **LCS-7854**	SampType: **LCS**	Units: **µg/L**	Prep Date: **6/17/2014**	RunNo: **15058**
Client ID: **LCSW**	Batch ID: **7854**		Analysis Date: **6/23/2014**	SeqNo: **308532**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	1.39	0.200	2.000	0	69.6	41.4	118				
Aroclor 1260	2.29	0.200	2.000	0	115	56	119				
Surr: Decachlorobiphenyl	429		400.0		107	45.1	140				
Surr: Tetrachloro-m-xylene	258		400.0		64.6	42.1	101				

Sample ID: **LCSD-7854**	SampType: **LCSD**	Units: **µg/L**	Prep Date: **6/17/2014**	RunNo: **15058**
Client ID: **LCSW02**	Batch ID: **7854**		Analysis Date: **6/23/2014**	SeqNo: **308533**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	1.85	0.200	2.000	0	92.7	41.4	118	1.392	28.5	30	
Aroclor 1260	2.10	0.200	2.000	0	105	56	119	2.291	8.75	30	
Surr: Decachlorobiphenyl	489		400.0		122	45.1	140		0		
Surr: Tetrachloro-m-xylene	312		400.0		78.1	42.1	101		0		

Sample ID: **MB-7854**	SampType: **MBLK**	Units: **µg/L**	Prep Date: **6/17/2014**	RunNo: **15058**
Client ID: **MBLKW**	Batch ID: **7854**		Analysis Date: **6/23/2014**	SeqNo: **308534**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.200									
Aroclor 1221	ND	0.200									
Aroclor 1232	ND	0.200									
Aroclor 1242	ND	0.200									
Aroclor 1248	ND	0.200									
Aroclor 1254	ND	0.200									
Aroclor 1260	ND	0.200									
Aroclor 1262	ND	0.200									
Aroclor 1268	ND	0.200									
Total PCBs	ND	0.200									

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Date: *6/23/2014*

Work Order: 1406144
CLIENT: NVL Labs, Inc.
Project: 2012-494

QC SUMMARY REPORT

Polychlorinated Biphenyls (PCB) by EPA 8082

Sample ID: **MB-7854**	SampType: **MBLK**			Units: **µg/L**		Prep Date: **6/17/2014**		RunNo: **15058**			
Client ID: **MBLKW**	Batch ID: **7854**					Analysis Date: **6/23/2014**		SeqNo: **308534**			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Decachlorobiphenyl	427		400.0		107	45.1	140				
Surr: Tetrachloro-m-xylene	259		400.0		64.9	42.1	101				

Sample ID: **1406144-001AMS**	SampType: **MS**			Units: **µg/L**		Prep Date: **6/17/2014**		RunNo: **15058**			
Client ID: **61014-CB3**	Batch ID: **7854**					Analysis Date: **6/23/2014**		SeqNo: **308535**			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	1.78	0.200	2.000	0	89.2	45.5	118				
Aroclor 1260	2.38	0.200	2.000	0.01760	118	50.8	129				
Surr: Decachlorobiphenyl	420		400.0		105	45.1	140				
Surr: Tetrachloro-m-xylene	288		400.0		71.9	42.1	101				

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Sample Log-In Check List

Client Name:	**NVL**	Work Order Number:	**1406144**
Logged by:	**Chelsea Ward**	Date Received:	**6/13/2014 5:00:00 PM**

Chain of Custody

1.	Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2.	How was the sample delivered?	Client		

Log In

3.	Coolers are present?	Yes ☑	No ☐	NA ☐
4.	Shipping container/cooler in good condition?	Yes ☑	No ☐	
5.	Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Required ☑
6.	Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
7.	Were all coolers received at a temperature of >0°C to 10.0°C	Yes ☐	No ☑	NA ☐
	Samples not received at appropriate temperature.			
8.	Sample(s) in proper container(s)?	Yes ☑	No ☐	
9.	Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
10.	Are samples properly preserved?	Yes ☑	No ☐	
11.	Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
12.	Is the headspace in the VOA vials?	Yes ☐	No ☐	NA ☑
13.	Did all samples containers arrive in good condition(unbroken)?	Yes ☑	No ☐	
14.	Does paperwork match bottle labels?	Yes ☑	No ☐	
15.	Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
16.	Is it clear what analyses were requested?	Yes ☑	No ☐	
17.	Were all holding times able to be met?	Yes ☑	No ☐	

Special Handling (if applicable)

18.	Was client notified of all discrepancies with this order?	Yes ☐	No ☐	NA ☑

Person Notified:		Date:	
By Whom:		Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:			
Client Instructions:			

19. Additional remarks:

Item Information

Item #	Temp °C	Condition
Cooler	18.6	
Sample	20.0	

Chain of Custody Record

Fremont Analytical
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Laboratory Project No (internal): 1406144
Date: 6/13/14
Page: 1 of: 1

Client: NVL LABS
Address: 4708 AURORA AVE N SEATTLE, WA
City, State, Zip ~~4708 AURORA AVE N.~~ SEATTLE, WA 98115
Reports To (PM): MUNAF KHAN
Tel: 206-547-0100
Fax:

Project Name: 2012-494
Location: 3100 AIRPORT WAY S. SEATTLE
Collected by: MARLIS GUDGEN
Email: MUNAF.K@NVLLABS.COM
Project No: 2012-494

*Matrix Codes: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, WW = Waste Water

	Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOC (EPA 8260)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SEMI VOL (EPA 8270)	PAH (EPA 8270 - SIM)	PCBs (EPA 8082)	Metals** (6020 / 200.8)	Total (T) / Dissolved (D)	Anions (IC)***	EDB (8011)	Comments/Depth
1	61014-CB3	6/10/14		AQ									X					COMPOSITE 3 1L BOTTLES
2																		USE AS M.S. AS WELL
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

**Metals Analysis (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL *Individual:* Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl U V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

Special Remarks:

Sample Disposal: ☐ Return to Client ☐ Disposal by Lab (A fee may be assessed if samples are retained after 30 days.)

Relinquished	Date/Time	Received	Date/Time
x Max	6/13/14 1700	x	6/13/14 1700
x	Date/Time	x	Date/Time

TAT -> SameDay^ NextDay^ 2 Day 3 Day STD
^Please coordinate with the lab in advance

C: 18.6
S: 20.0

Distribution: White - Lab, Yellow - File, Pink - Originator

3600 Fremont Ave. N.
Seattle, WA 98103
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F: (206) 352-7178
info@fremontanalytical.com

NVL Labs, Inc.
Munaf Khan
4708 Aurora Ave. N.
Seattle, WA 98103

RE: 2012-494
Lab ID: 1406145

June 23, 2014

Attention Munaf Khan:

Fremont Analytical, Inc. received 2 sample(s) on 6/13/2014 for the analyses presented in the following report.

Polychlorinated Biphenyls (PCB) by EPA 8082
Sample Moisture (Percent Moisture)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Michael Dee
Sr. Chemist / Principal

Date: *06/23/2014*

CLIENT: NVL Labs, Inc.
Project: 2012-494
Lab Order: 1406145

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1406145-001	61014-CB1-S1	06/10/2014 10:00 AM	06/13/2014 5:00 PM
1406145-002	61014-CB3-S1	06/10/2014 10:00 AM	06/13/2014 5:00 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Case Narrative

WO#: **1406145**
Date: **6/23/2014**

CLIENT: NVL Labs, Inc.
Project: 2012-494

I. SAMPLE RECEIPT:
Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:
Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:
Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.
Prep Comments for METHOD (PREP-PCB-S), SAMPLE (1406145-001A) required Acid Cleanup Procedure (Using Method No 3665A).
Prep Comments for METHOD (PREP-PCB-S), SAMPLE (1406145-002A) required Acid Cleanup Procedure (Using Method No 3665A).
Prep Comments for METHOD (PREP-PCB-S), SAMPLE (1406145-001A) required Florisil Cleanup Procedure (Using Method No 3620C).
Prep Comments for METHOD (PREP-PCB-S), SAMPLE (1406145-002A) required Florisil Cleanup Procedure (Using Method No 3620C).

Analytical Report

WO#: **1406145**
Date Reported: **6/23/2014**

Client: NVL Labs, Inc.
Collection Date: 6/10/2014 10:00:00 AM
Project: 2012-494
Lab ID: 1406145-001
Matrix: Soil
Client Sample ID: 61014-CB1-S1

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Polychlorinated Biphenyls (PCB) by EPA 8082				Batch ID: 7834		Analyst: MD
Aroclor 1016	ND	0.382	D	mg/Kg-dry	2	6/18/2014 11:39:00 PM
Aroclor 1221	ND	0.382	D	mg/Kg-dry	2	6/18/2014 11:39:00 PM
Aroclor 1232	ND	0.382	D	mg/Kg-dry	2	6/18/2014 11:39:00 PM
Aroclor 1242	ND	0.382	D	mg/Kg-dry	2	6/18/2014 11:39:00 PM
Aroclor 1248	ND	0.382	D	mg/Kg-dry	2	6/18/2014 11:39:00 PM
Aroclor 1254	ND	0.382	D	mg/Kg-dry	2	6/18/2014 11:39:00 PM
Aroclor 1260	9.88	0.382	D	mg/Kg-dry	2	6/18/2014 11:39:00 PM
Aroclor 1262	ND	0.382	D	mg/Kg-dry	2	6/18/2014 11:39:00 PM
Aroclor 1268	ND	0.382	D	mg/Kg-dry	2	6/18/2014 11:39:00 PM
Total PCBs	9.88	0.382	D	mg/Kg-dry	2	6/18/2014 11:39:00 PM
Surr: Decachlorobiphenyl	98.4	50.2-159	D	%REC	2	6/18/2014 11:39:00 PM
Surr: Tetrachloro-m-xylene	85.7	60.3-134	D	%REC	2	6/18/2014 11:39:00 PM
Sample Moisture (Percent Moisture)				Batch ID: R14885		Analyst: KZ
Percent Moisture	47.9			wt%	1	6/16/2014 8:37:26 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Analytical Report

WO#: **1406145**
Date Reported: **6/23/2014**

Client: NVL Labs, Inc.
Collection Date: 6/10/2014 10:00:00 AM
Project: 2012-494
Lab ID: 1406145-002
Matrix: Soil
Client Sample ID: 61014-CB3-S1

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Polychlorinated Biphenyls (PCB) by EPA 8082				Batch ID: 7834		Analyst: MD
Aroclor 1016	ND	1.06	D	mg/Kg-dry	4	6/19/2014 11:33:00 AM
Aroclor 1221	ND	1.06	D	mg/Kg-dry	4	6/19/2014 11:33:00 AM
Aroclor 1232	ND	1.06	D	mg/Kg-dry	4	6/19/2014 11:33:00 AM
Aroclor 1242	ND	1.06	D	mg/Kg-dry	4	6/19/2014 11:33:00 AM
Aroclor 1248	ND	1.06	D	mg/Kg-dry	4	6/19/2014 11:33:00 AM
Aroclor 1254	ND	1.06	D	mg/Kg-dry	4	6/19/2014 11:33:00 AM
Aroclor 1260	4.33	1.06	D	mg/Kg-dry	4	6/19/2014 11:33:00 AM
Aroclor 1262	ND	1.06	D	mg/Kg-dry	4	6/19/2014 11:33:00 AM
Aroclor 1268	ND	1.06	D	mg/Kg-dry	4	6/19/2014 11:33:00 AM
Total PCBs	4.33	1.06	D	mg/Kg-dry	4	6/19/2014 11:33:00 AM
Surr: Decachlorobiphenyl	97.7	50.2-159	D	%REC	4	6/19/2014 11:33:00 AM
Surr: Tetrachloro-m-xylene	98.5	60.3-134	D	%REC	4	6/19/2014 11:33:00 AM
Sample Moisture (Percent Moisture)				Batch ID: R14885		Analyst: KZ
Percent Moisture	66.8			wt%	1	6/16/2014 8:37:26 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Fremont Analytical

Date: *6/23/2014*

Work Order: 1406145
CLIENT: NVL Labs, Inc.
Project: 2012-494

QC SUMMARY REPORT

Polychlorinated Biphenyls (PCB) by EPA 8082

Sample ID: **MB-7834** SampType: **MBLK** Units: **mg/Kg** Prep Date: **6/16/2014** RunNo: **14966**
Client ID: **MBLKS** Batch ID: **7834** Analysis Date: **6/18/2014** SeqNo: **307219**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.100									
Aroclor 1221	ND	0.100									
Aroclor 1232	ND	0.100									
Aroclor 1242	ND	0.100									
Aroclor 1248	ND	0.100									
Aroclor 1254	ND	0.100									
Aroclor 1260	ND	0.100									
Aroclor 1262	ND	0.100									
Aroclor 1268	ND	0.100									
Total PCBs	ND	0.100									
Surr: Decachlorobiphenyl	99.8		100.0		99.8	50.2	159				
Surr: Tetrachloro-m-xylene	103		100.0		103	60.3	134				

Sample ID: **LCS-7834** SampType: **LCS** Units: **mg/Kg** Prep Date: **6/16/2014** RunNo: **14966**
Client ID: **LCSS** Batch ID: **7834** Analysis Date: **6/18/2014** SeqNo: **307220**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	1.05	0.100	1.000	0	105	65.8	117				
Aroclor 1260	0.876	0.100	1.000	0	87.6	57	134				
Surr: Decachlorobiphenyl	89.2		100.0		89.2	50.2	159				
Surr: Tetrachloro-m-xylene	89.3		100.0		89.3	60.3	134				

Sample ID: **1406145-002AMS** SampType: **MS** Units: **mg/Kg-dry** Prep Date: **6/16/2014** RunNo: **14966**
Client ID: **61014-CB3-S1** Batch ID: **7834** Analysis Date: **6/19/2014** SeqNo: **307225**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	5.60	1.15	5.771	0	97.0	61.7	139				D
Aroclor 1260	6.77	1.15	2.886	4.326	84.8	63.1	138				D

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Fremont Analytical

Date: *6/23/2014*

Work Order: 1406145
CLIENT: NVL Labs, Inc.
Project: 2012-494

QC SUMMARY REPORT

Polychlorinated Biphenyls (PCB) by EPA 8082

Sample ID: **1406145-002AMS** SampType: **MS** Units: **mg/Kg-dry** Prep Date: **6/16/2014** RunNo: **14966**
Client ID: **61014-CB3-S1** Batch ID: **7834** Analysis Date: **6/19/2014** SeqNo: **307225**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Decachlorobiphenyl	309		288.6		107	50.2	159				D
Surr: Tetrachloro-m-xylene	277		288.6		95.9	60.3	134				D

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Sample Log-In Check List

Client Name:	**NVL**	Work Order Number:	**1406145**
Logged by:	**Chelsea Ward**	Date Received:	**6/13/2014 5:00:00 PM**

Chain of Custody

1.	Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2.	How was the sample delivered?	Client		

Log In

3.	Coolers are present?	Yes ☑	No ☐	NA ☐
4.	Shipping container/cooler in good condition?	Yes ☑	No ☐	
5.	Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Required ☑
6.	Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
7.	Were all coolers received at a temperature of >0°C to 10.0°C	Yes ☐	No ☑	NA ☐
		Refer to item information		
8.	Sample(s) in proper container(s)?	Yes ☑	No ☐	
9.	Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
10.	Are samples properly preserved?	Yes ☑	No ☐	
11.	Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
12.	Is the headspace in the VOA vials?	Yes ☐	No ☐	NA ☑
13.	Did all samples containers arrive in good condition(unbroken)?	Yes ☑	No ☐	
14.	Does paperwork match bottle labels?	Yes ☑	No ☐	
15.	Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
16.	Is it clear what analyses were requested?	Yes ☑	No ☐	
17.	Were all holding times able to be met?	Yes ☑	No ☐	

Special Handling (if applicable)

18.	Was client notified of all discrepancies with this order?	Yes ☐	No ☐	NA ☑

Person Notified:		Date:	
By Whom:		Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:			
Client Instructions:			

19. Additional remarks:

Item Information

Item #	Temp °C	Condition
Cooler	18.6	
Sample	20.0	

Chain of Custody Record

Fremont Analytical
3600 Fremont Ave N. Tel: 206-352-3790
Seattle, WA 98103 Fax: 206-352-7178

Laboratory Project No (internal): 1406145
Date: 6/13/14 Page: 1 of: 1

Client: NVL LABS
Address: 4708 AURORA AVE N
City, State, Zip SEATTLE, WA, 98103 Tel: 206-547-0100
Reports To (PM): MUNAF KHAN Fax:

Project Name: 2012-494
Location: 3100 AIRPORT WAY S SEATTLE, WA, 98103
Collected by: MARCUS BLADOREN
Email: MUNAF.K@NVLLABS.COM Project No: 2012-494

*Matrix Codes: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, WW = Waste Water

	Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOC (EPA 8260)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SEMI VOL (EPA 8270 - SIM)	PAH (EPA 8270 - SIM)	PCBs (EPA 8082)	Metals** (6020 / 200.8)	Total (T) / Dissolved (D)	Anions (IC)***	EDB (8011)	Comments/Depth
1	61014-CB1-S1	6/10/14	10:00	S								X						
2	61014-CB3-S1	6/10/14	10:00	S								X						SAMPLE NAME: 61014-CB3-S1
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

**Metals Analysis (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL *Individual:* Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl U V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

Special Remarks:

Sample Disposal: ☐ Return to Client ☐ Disposal by Lab (A fee may be assessed if samples are retained after 30 days.)

Relinquished	Date/Time	Received	Date/Time
x Marcus	6/10/14 1200	x	6/13/14 1700
Relinquished	Date/Time	Received	Date/Time
x		x	

TAT -> SameDay^ NextDay^ 2 Day 3 Day STD
^Please coordinate with the lab in advance

C: 18.6
S: 20.0

Distribution: White - Lab, Yellow - File, Pink - Originator